

PDR RID Report

Originator Art Gaylord **Phone No** 413-545-2520
Organization University of Massachusetts
E Mail Address art@cs.umass.edu
Document CSS Presentation

RID ID PDR 174
Review CSMS
Originator Ref
Priority 1

Section

Page

Figure Table

Category Name Design-CSS

Actionee HAIS

Sub Category Multiplicity of communication methods

Subject Rationalize client server communications methods

Description of Problem or Suggestion:

The CSS design has multiple communications paradigms (RPC, messaging, ftp, mail, and object methods, for example). There is a need to rationalize these methods to carefully distinguish fundamental differences between them and to determine the appropriate usage domain for each. If possible, a common interface should be developed to shield programmers from the need to make these decisions when possible. Security, naming, and performance consequences of choosing a communications method should be documented.

Originator's Recommendation

GSFC Response by:

GSFC Response Date

HAIS Response by: Forman

HAIS Schedule 2/17/95

HAIS R. E. Winston

HAIS Response Date 2/21/95

The CSS services the application developer normally interacts directly with are DOF, ftp, email, events, and message passing. The application developer normally interacts with other services like the security and naming through the DOF interface. A comparison of the features and their appropriate applicability of DOF, message passing and event services are described in Table 6.2.3.1-1 of DID 305 CSMS Segment Design document (305-CD-003-001).

Security, Naming, and performance consequences of choosing a communication method will be documented as well as software development guidelines in an .ECS/CSS programming guidelines document to assist application developers to create portable and reliable software that uses CSS provided services (as recommended in RID PDR 143). It is planned that a first draft of this documentation should be available by the FOS CDR.

See response to RID 170 with respect to the need for a common interface.

Status Closed

Date Closed 3/8/95

Sponsor Broder

***** Attachment if any *****